CLAIMS

An airframe/nozzle arrangement for a VTOL or STOVL aircraft having a airframe mounted propulsive system for generating vertical lift, the arrangement comprising a hinged deflector door pivotally mounted on the underside of the airframe for exhaust efflux deflection, the deflector being provided with a pair of lateral sidewalls which are are movable in the plane of the door to direct the efflux sidewards for aircraft yaw control.

- 2 An airframe/nozzle arrangement as claimed in claim 1 wherein the sidewalls are movable with respect to the deflector door.
- An airframe/nozzle arrangement as claimed in claim 2 wherein the sidewalls are pivotally mounted with respect to the deflector doop.
- An airframe/nozzle arrangement as claimed in claim 3 wherein the sidewalls are connected for co-ordinated pivotal movement.
- An airframe/nozzle arrangement as claimed in claim 4 wherein the sidewalls each define one side of a movable yaw deflector pivotally mounted to the deflector door.

An airframe/nozzle arrangement as claimed in claim 5 wherein the yaw deflector comprises a tray type structure which lies flat against the defector door for exhaust efflux/impingement.

An airframe/nozzle arrangement as claimed in claim wherein the yaw deflector comprises a hollow frame

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type structure which lies flat against the deflector door, the frame being hollow in the region of exhaust efflux impingement.

- 8 An airframe/nozzle arrangement as claimed in claim 7 wherein the sidewalls are joined at their respective downstream ends by a member which engages a guide formed in the deflector door.
- An airframe/nozzle arrangement as claimed in claim # wherein the sidewalls are pivotally mounted in spaced apart relation to opposing sides of the deflector door, and are linked together by means of a connecting element to define a parallelogram type linkage for co-ordinated pivotal movement for aircraft yaw control.
- 10 An airframe/nozzle arrangement as claimed in claim 9 wherein the connecting element lies within a channel formed in the deflector door.
- An airframe/nozzle arrangement as claimed in any preceding claim, wherein the downstream edge of the deflector door is angled relative to the main region of the door to direct the exiting exhaust efflux further in the aftward direction of the airframe.
- An airframe/nozzle arrangement substantially as hereinbefore described with reference to the accompanying drawings.



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